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Hanna et al.
Appl. No. 09/030,832***Remarks***

Upon entry of the foregoing amendments, claims 95-147 are pending in the application. Reconsideration of this Application is respectfully requested.

Non-elected claims 10, 27-94, and 148-157 have been canceled without prejudice or disclaimer. Applicants reserve the right to file one or more divisional applications directed to the non-elected subject matter.

Claims 95, 98, 101, 104, 115, 117, 118, and 127 have been amended. These amendments are being made to place the case in condition for allowance, following several helpful telephonic interviews with the Examiner. Support for the amendments can be found at, *inter alia*, pages 95-97. Accordingly, the amendments are believed to introduce no new matter, and their entry is respectfully requested.

Based on the above amendments, Applicants respectfully request that the Examiner reconsider and withdraw all outstanding rejections and that a Notice of Allowance be issued.

Conclusion

All of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason,

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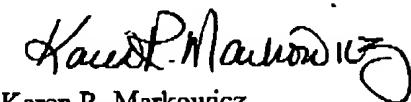
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that personal communication will expedite allowance of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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Version with markings to show changes made

Claims 10, 27-94, and 148-157 have been canceled.

95. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids 1 to 260 of SEQ ID NO:42;

wherein % identity is determined with parameters that calculate % identity over the full length of amino acids 1 to 260 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids 1 to 260 of SEQ ID NO:42; [and]

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

98. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids 1 to 488 of SEQ ID NO:42;

wherein % identity is determined with parameters that calculate % identity over the full length of amino acids 1 to 488 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids 1 to 488 of SEQ ID NO:42; [and]

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

101. (fourth amended) An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids -17 to 488 of SEQ ID NO:42;

wherein % identity is determined with parameters that calculate % identity over the full length of amino acids -17 to 488 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids -17 to 488 of SEQ ID NO:42; [and]

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

104. (fourth amended) An isolated polynucleotide comprising a nucleotide sequence encoding a polypeptide comprising an amino acid sequence at least 95% identical to amino acids -18 to 488 of SEQ ID NO:42;

wherein % identity is determined with parameters that calculate % identity over the full length of amino acids -18 to 488 of SEQ ID NO:42 and that allow gaps of up to 5% of the total number of residues in amino acids -18 to 488 of SEQ ID NO:42; [and]

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

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115. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642[,] ;

wherein % identity is determined with parameters that calculate % identity over the full length of the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642 and that allow gaps of up to 5% of the total number of residues of the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642; [and]

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

117. (fourth amended) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence at least 95% identical to the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642;

wherein % identity is determined with parameters that calculate % identity over the full length of the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642 and that allow gaps of up to 5% of the total number of residues of the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 209642; [and]

wherein said polypeptide forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.

127. (twice amended) An isolated polynucleotide comprising a first polynucleotide which hybridizes to a second polynucleotide, wherein the second polynucleotide consists of the complement of the nucleotide sequence of the coding region of SEQ ID NO:41 [, or the full-length complement thereof], under conditions [comprising] consisting of:

(a) incubating overnight at 42°C in a solution consisting of 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA; and

(b) washing at 65°C in a solution consisting of 0.1x SSC;

[wherein said first polynucleotide is at least 70 nucleotides in length]

wherein said first polynucleotide encodes a polypeptide that forms a GABA_A receptor complex with α- and β- GABA_A receptor subunits; and

wherein said complex produces GABA-activated chloride currents.